



PATENT/DESIGN PATENT

DECLARATION

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HEAT DRIVEN ACOUSTIC ORIFICE TYPE PULSE TUBE CRYOCOOLER

(Insert invention title)

the specification of which is attached hereto or, if not attached, was filed as International Application No. PCT/____/_____, on _____, 19____, designating the United States. (Insert PCT ser. no. and filing date if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to in the declaration.

I acknowledge the duty to disclose all information which is known to be material to patentability of this application in accordance with Title 37, Code of Federal Regulations §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of the foreign application(s) for patent or inventor's certificate designated below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

(List prior foreign applications)

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
KR	10-2002-0048381	16 August 2002	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Telephone calls and correspondence should be directed to:

VIDAS, ARRETT & STEINKRAUS

Suite 2000, 6109 Blue Circle Drive, Minnetonka, Minnesota 55343, USA

Phone (612) 563-3000 Facsimile (612) 563-3001

Sole or First Inventor

Full Name: KIM, Ig Saeng

Inventor's Signature: 

Date: August 14, 2003

Citizenship: Republic of Korea

Post Office Address: 113-404, Hyundai Apt.
Baekseok-dong, Cheonan-si
330-220 Chungcheongnam-do
Republic of Korea

Residence: (if different from post office address) _____

Second Inventor

Full Name: KIM, Chun Dong

Inventor's Signature: 

Date: August 14, 2003

Citizenship: Republic of Korea

Post Office Address: 353-305, Toegye Apt.
Geumjeong-dong, Gunpo-si
435-050 Gyeonggi-do
Republic of Korea

Residence: (if different from post office address) _____

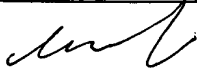
(Attach additional sheets for third and subsequent inventors)

Attorney Docket No. 540.2-11278-US01

APP.# : 10/643,239

Inventor

Full Name: LEE, Chang Ho

Inventor's Signature: 

Date: August 14, 2003


Citizenship: Republic of Korea

Post Office Address: 345-1305, Yulgok Apt.
876, Geumjeong-dong, Gunpo-si

Residence: 435-050 Gyeonggi-do
(if different Republic of Korea
from post office address)

Inventor

Full Name: KIM, Kyun Seok

Inventor's Signature: 

Date: August 14, 2003


Citizenship: Republic of Korea

Post Office Address: 308-1302, Pungnim Apt.
Gwonseon-dong, Gwonseon-gu

Residence: Suwon-si, 441-390 Gyeonggi-do
(if different Republic of Korea
from post office address)

Inventor

Full Name: KIM, Do Hyung

Inventor's Signature: 

Date: August 14, 2003

Citizenship: Republic of Korea

Post Office Address: 608-1102, Saetbyeol Apt.
Bisan-dong, Dongan-gu

Residence: Anyang-si, 431-050 Gyeonggi-do
(if different Republic of Korea
from post office address)

Inventor

Full Name: _____

Inventor's Signature: _____

Date: _____

Citizenship: _____

Post Office Address: _____

Residence: _____
(if different
from post office address)

Inventor

Full Name: _____

Inventor's Signature: _____

Date: _____

Citizenship: _____

Post Office Address: _____

Residence: _____
(if different
from post office address)

Inventor

Full Name: _____

Inventor's Signature: _____

Date: _____

Citizenship: _____

Post Office Address: _____

Residence: _____
(if different
from post office address)

Declaration - additional inventor sheet

APP # 10/643,239



PATENT/DESIGN PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: KIM, Ig Saeng; KIM, Chun Dong; LEE, Chang Ho;
KIM, Kyun Seok; and KIM, Do Hyung
Title: HEAT DRIVEN ACOUSTIC ORIFICE TYPE PULSE
TUBE CRYOCOOLER

POWER OF
ATTORNEY
(ASSIGNEE FORM)

Filing Date: August 18, 2003
Serial No.: 10/643,239
Docket No.: S40.2-11278-US01

(Filing date, serial number and docket number may be left blank at time of signing)

The below named Assignee of the entire interest of the above identified patent application, filed concurrently herewith or for which the docket no., filing date and application number may be inserted above by any attorney of Vidas Arrett & Steinkraus, P.A., when known, hereby appoints the following attorneys to prosecute this application and any application claiming priority therefrom; to execute any terminal disclaimers; and to transact all business in the Patent and Trademark Office connected therewith and with any patent issuing therefrom:

Oliver F. Arrett	Reg. No. 22,117
Scott Q. Vidas	Reg. No. 30,812
Walter J. Steinkraus	Reg. No. 29,592
Richard A. Arrett	Reg. No. 33,153
Leoniede M. Brennan	Reg. No. 35,832
Jane H. Arrett	Reg. No. 33,355
William E. Anderson, II	Reg. No. 37,766
Robert O. Vidas	Reg. No. 20,164

all of VIDAS, ARRETT & STEINKRAUS, Professional Association, Suite 2000, 6109 Blue Circle Drive, Minnetonka, Minnesota 55343, USA, Telephone (612) 563-3000; and I hereby authorize them to act and rely on instructions from, and to communicate directly with, the firm or person which sent this case to VIDAS, ARRETT & STEINKRAUS unless or until I instruct VIDAS, ARRETT & STEINKRAUS in writing to the contrary. I have authority to execute this document on behalf of the Assignee.

Date August 14, 2003 (Name of Assignee)

LG CABLE LTD.

(Signature)

(Title)

By:

D. K. Han
HAN, Dong-Kyu

Its: President

VIDAS, ARRETT & STEINKRAUS
Suite 2000, 6109 Blue Circle Drive, Minnetonka, Minnesota 55343, USA
Phone (612) 563-3000 Facsimile (612) 563-3001